



Effectiveness of Water Quality Monitoring Technologies in Uganda’s Rural Communities: An Analytical Year 2 Report

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Abstract

This study examines the effectiveness of water quality monitoring technologies in rural communities within Uganda's agricultural sector. A mixed-methods approach was employed, combining qualitative interviews with quantitative data analysis from community surveys and technology performance assessments. Community feedback indicated a significant preference for real-time monitoring systems over traditional sampling methods, favoring their timely alerts for water quality issues. The findings suggest that while technologies improve awareness of water quality, challenges persist in ensuring consistent usage and maintenance by rural users. Recommendations include the need to enhance user training programmes and integrate technological solutions with community-based monitoring initiatives.

Keywords: *African Geography, Rural Development, Water Quality Management, Monitoring Techniques, Sustainable Agriculture, Participatory Research, Quantitative Methods*

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